

SHEET <u>1</u> of <u>1</u>

74		\						
3	1996 INHORMATION DISCLOSURE STEEMENT BY APPLICANT PTO - 1449			ATTORNEY DOCK 960253/HG	SERIAL NO. 08/672,378			
(C)				APPLICANT: Mitsuru ADACHI et al.				
				FILED: May 28	ART UNIT: 3205 /722			
			U.S. PATE	NT DOCUMENTS				
		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB		
	<u> </u>	FC	DREIGN PAT	ENT DOCUMENTS	<u>, </u>			
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB	TRANSL	ATION
							YES	NO
R		719 606	7-1996	Europe CPO				
		0 392 998 330 701 002	10-1990 3-1996	Europe EPO				
100		WO 92/13662	8-1992	PCT				
			:					
							1	
							·	
OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.)								
R								
""		-235047 PUBLISHED						
13	Patent Abstracts of Japan, Vol. 017, No. 574 (M-1498), October 19, 1993 of JP 5-169227 PUBLIS HED JULY 9, 1963							
EXAMINER: J. REED BATTEN, JA. DATE CONSIDERED: 8-28-68								
Nove	November 4, 1996							



SHEET <u>1</u> of <u>1</u>

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				ATTORNEY DOCKET	SERIAL NO. 08/672,378				
				APPLICANT: Mitsuru ADACHI et al.					
		PTO - 1449		FILED: May 28,	7722 ART UNIT: 3205				
	U.S. PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB			
MAR	P & 1998	5, 701, 942 (C37 30146)	12-1997	Adachi et al. ALRENTY OF RECORT)	l .	ECEIVE Mar 1 2 109		
	CD710 4700								
	FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB	TRANSLAT YES	NO NO	
							125		
	OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.)								
EXA	EXAMINER: J. REED BATTENJE. DATE CONSIDERED: 7-6-99								
Fe	February 26, 1999								

SHEET <u>1</u> of <u>2</u>

ATTORNEY DOCKET NO. SERIAL NO. INFORMATION DISCLOSURE 960253/HG 08/672,378 STATEMENT BY APPLICANT PTO APPLICANT: Mitsuru ADACHI et al. FILED: May 28, 1996 ART UNIT U.S. PATENT DOCUMENTS 1902 DATE DOCUMENT NUMBER NAME CLASS SUB 4,415,374 11-1983 Young et al. 3,902,544 9-1975 Flemings et al. 4,457,354 7-1984 Dantzig et al. FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUB TRANSLATION YES NO 63-7867 2-198 Japan Х* 1-1976 51-9004 Japan X * * 63-40852 12-198 Japan X*** 6-73485 3-1994 Japan X**** 7-164108 6-1995 Japan X 61-235047 10-1986 Japan X 7-1996 8-187547 Х Japan *related family member of USP 4,457,354 **related family member of USP 3,902,544 ***related family member of USP 4,415,374 ****partial English language translation (Abstract and claims) EXAMINER: V. KEED BATTEN, JR. DATE CONSIDERED: 8-25-EX October 9, 1996

7



SHEET 2 of 2

APPLICANT: Mitsuru ADACHI et al. FILED: May 28, 1996 U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE DATE COUNTRY CLASS SUB TRANSLATION YES NO OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) (SAE-930753) 7P (1993) 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-174. Je DATE CONSIDERED: 9-18-6 Cotober 9, 1996 ART UNIT'-22 ART UNIT'-21 RATE UNIT'-21 ART		INFORMATION DISCLOSURE STATEMENT BY APPLICANT OTO - 1449			ATTORNEY DOCK 960253/HG	SERIAL NO. 08/672,378				
OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) OTHER DOCUMENT NUMBER DATE OTHER DOCUMENT NUMBER DATE COUNTRY CLASS SUB TRANSLATION YES NO OTHER DOCUMENT NUMBER DATE COUNTRY CLASS SUB TRANSLATION YES NO Authorized Authorized Country Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): DO244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 79 (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. EXAMINER: J. RED BATTEN, Je DATE CONSIDERED: 9-28-93-					APPLICANT: Mitsuru ADACHI et al.					
FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUB TRANSLATION YES NO OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) (SAE-930753) 7P (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. EXAMINER: J. REED BATTEN, Je. DATE CONSIDERED: 9-28-93		<u> </u>		FILED: May 28	ART UNIT:22					
OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys. New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994 6, 155 177. p. 157-177, EXAMINER: J. RECO BATTEN, Je. DATE CONSIDERED: 9-28-85		18	→ <i>K</i> -7	U.S. PATE	NT DOCUMENTS					
OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993) 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp. 157-177. EXAMINER: J. RECO Batter, Jee Date Considered: G-28-58		No.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB			
OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993) 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp. 157-177. EXAMINER: J. RECO Batter, Jee Date Considered: G-28-58			·							
OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993) 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp. 157-177. EXAMINER: J. RECO Batter, Jee Date Considered: G-28-58			*							
OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'1 Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp.157-177. EXAMINER: J. RECO BATTEN, J.e. DATE CONSIDERED: G-28-13			F	OREIGN PAT	TENT DOCUMENTS					
OTHER DOCUMENTS (AUTHOR, TITLE, DATE, PAGES, PUBLICATION, ETC.) G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155 177. pp. 157-177. EXAMINER: J. RECO BATTEN, Je DATE CONSIDERED: G-28-93			DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB	TRANSL	ATION	
G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp. 157-177. EXAMINER: J. REED BATTEN, JR DATE CONSIDERED: 9-28-93							10	YES	NO	
G. Wan et al., Thixoforming of Aluminium Alloys Using Modified Chemical Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp. 157-177. EXAMINER: J. REED BATTEN, JR DATE CONSIDERED: 9-28-93										
Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy, 3-4, June 1993, 115. Haavard Gjestland, Thixotropic Casting of Magnesium Using a Conventional Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp.155-177. EXAMINER: J. REED BATTEN, Je DATE CONSIDERED: 9-28-93		ΓO	HER DOCUMENTS (AUTI	OR, TITLE	, DATE, PAGES,	PUBLICA	ATION,	ETC.)		
Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc Automot Eng) (USA) [SAE-930753] 7P (1993), 101-106. K. Young, et al., "Semi-Solid Metal Cast Aluminium Automotive Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp. 155-177. EXAMINER: J. REED BATTEN, JR DATE CONSIDERED: 9-28-93	RS	Grain Refinement for Billet Production, International Conference, "Aluminium Alloys: New Process Technologies", Marina de Ravenna, Italy,								
Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and Composites, 1994.6, 155-177. pp. 155-177. EXAMINER: J. REED BATTEN, JR DATE CONSIDERED: 9-28-93	M	Casting Machine, (Norsk hydro a.s.): D0244B SAE Tech Pap Ser (Soc								
	RY	Components", The 3rd Int'l Conf. on Semi-Solid Processing of Alloys and								
October 9, 1996	EXAMINER: J. REED BATTEN, JR DATE CONSIDERED: 9-28-98									